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- *From:* invoice98@irin.univ-nantes.fr (invoice 98)
 - *Date:* Fri, 6 Mar 1998 19:10:46 +0100 (MET)
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CALL for PARTICIPATION

International Workshop on: Comparing Systems Specification Techniques
"What questions are prompted by ones particular method of specification ?"

Nantes (France)
March 26-27, 1998

<http://www.sciences.univ-nantes.fr/info/manifestations/invoice98>

Organized by IRIN (Institut de Recherche en Informatique de Nantes,
Universite de Nantes & Ecole Centrale de Nantes), with the participation of
APCB (The International B Conference Steering Committee)

Workshop venue:

IRIN, Faculte des sciences,
2 rue de la Houssiniere, 44322 Nantes Cedex 3, France
(Tram, Line 2, station "Michelet, Faculté des sciences")

(see <http://www.sciences.univ-nantes.fr/info/manifestations/invoice98> for
more informations about how to get to IRIN)

Registration:

Informations about registration and registration form can be found at
the Workshop URL below.

Aims and scope:

"... we find that our customers are not very good at deciding on their requirements. ... Traditionnally, we software developers have thought of our customers as bears of very little brain. ' They don't know what they want', we said to each other smugly. But in truth we achieved this superior perspective only by virtue of our own limitations and failures. We were the bears of very little brain"

M. Jackson [Jackson M. - Software Requirements & Specifications, Addison Wesley, 1995]

Considering that it is the role of the software developers to ask the right questions to the customer as it is a doctor to ask the right questions to their patient.

Considering that, if the " The programmer's task is...to give a formal proof that the program he proposes meets the equally formal functional specification." (Dijkstra, CACM), "This is a noble goal, but it presupposes that someone else has done all the hard work by managing to create a formal functional specification that is appropriate to the task at hand. " (T. Winograd, CACM), we proposed to the international software community that they answer: "What questions are prompted by ones particular method of specification?" for a small case study about invoicing.

Primarily, the workshop will be the event where these questions are presented.

However, it will also provide an opportunity to:

- present the specification of the 'invoicing function' through different methods, formalisms, languages
- compare different methods, formalisms, languages over the same case study

This workshop is the 9th meeting of the series "Putting Into Practice Methods and Tools for Information System Design". The conference will start with an invited presentation about the industrial application of two methods with two different paradigms, B and LDS/SDL.

Preliminary Program:

March 26 1998

8h. 00 Registration

9h.00 Conference

LanetJ.L., Lartigue P. - The Use of Formal Methods for Smart Cards, a Comparison between B and SDL for Modelling the T= 1 Protocol, GemPlus Research Group, Gémenos, Fr

9h 30 Break

During all the day, exposition of books on formal methods, semi-formal methods, requirement engineering, software engineering

Invoicing Case Study

Session 1.1- Formal Specification

10h. Chavin P, Monin J.F. - Using Coq for specifying an Invoicing System, CNET, Lannion, Fr

10h. 30 Paillet J-L. A Case Study: Specifying an Invoicing System by means of P-Calculus, LIM, Univ. de Provence, Fr

11h. 00 Rust H. - A PVS specification of an Invoicing System, BTU, Cottbus, Germany

11h. 30 - Ciancarini P., Mascolo C. - Using a Coordination Language to Specify the Invoicing System, Univ. di Bologna, Italy
12 h. 00 - Discussion
12h. 30 Break

Session 1.2- LOTOS

10h. 00 Turner K. J.- The Invoicing Case Study in (E-)Lotos, U. of Stirling, UK
10h. 30 Sighireanu M.- Model-checking Validation of the LOTOS Descriptions of the Invoicing Case Study, INRIA Rhone-Alpes, Fr
11h. 00 Pierre, L.- Specification of communicating processes in Lotos and in VHDL: a Case Study, Univ. de Provence, LIM, Fr
11h. 30 Discussion
12h. 30 Break

Session 2.1 Formal Specifications

14h. 00 Mokhtari Y. - The Invoice System Problem in TLA+, LORIA, Vandoeuvre-lès-Nancy, Fr
14h. 30 Allemand M., Choppy C. - The Invoicing Case Study: An Algebraic Specification, IRIN, Univ. de Nantes, Fr
15h. 00 Break
15h. 30 Reggio G.- A Method to Capture Formal Requirements: the invoicing Case Study, U.di Genova, It
16h. 00 Doche, M. - Specification of the Invoicing system in TRIO, ONERA-CERT, Toulouse, Fr
16h. 30 Discussion
17. 30 End

Session 2.1 Semi-formal Methods

14h. 00 Dupuy S., Front A., Saint-Marcel C. - The Invoicing System in UML, IMAG, Grenoble, Fr
14h. 30 Gues J-M. - The Invoicing Order Case Study with Shlaer & Mellor Method, AONIX, Malakoff, Fr
15 h. 00 Break
15h. 30 France, R.B., Bruel, J-M.- Applying Fusion/UML to the Invoice Problem, Florida Atlantic U., USA, U. de Pau, Fr
16h. 00 Oliver D., Gregory M. - Invoice Case Study in ERA, Z, Central Queensland U., Australia
16h. 30 Discussion
17h. 30 End

March 27 1998

Session 3.1. Formal Methods

9h. 00 Sinclair J - An Action Systems Approach to the Invoice Case Study, U. of Warwick, UK
9h. 30 Azema P., Vernadat F. - Specification and Verification of Communicating Agents, The Invoice Case Study LAAS, Toulouse, Fr
10h. 00 Break
10h. 30 Attiogbe C. - Specifying the invoicing system as a protocol with PROMELA, Univ. de Nantes, IRIN, Fr
11h. 00 Lichtenberg J., Hansen, M.R., Rischel H.- SML: Invoicing Case Study, Tech. U. of Denmark, Dk
11h. 30 Discussion
12h. 30 Break

Session 3.2. Z and B

9h. 00 Stoddart B.- An Event Calculus Treatment of the Invoicing of Orders, U. of Teesside, UK
9h. 30 Bruel J.M., France R.B. The Invoice Case Study: A Z version, U. de Pau, Fr, Florida Atlantic U., USA

10h. Break

10h. 30 Polack F. - Questions raised in development with SAZ, U. of York, U.K.

11h. 00 Facon P, Laleau R., Nguyen H. P. - Invoicing system problem: From OMT Diagrams to B Specifications, CNAM, Paris, Fr

11h. 30 Benzekri I., Berdjugin J.-F. - Different Approaches of an Invoice System with Z, IRIT/SIERA, Un. de Toulouse, Fr.

12h. 00 Discussion

Session 4.1.

14h. 00 Andre P., Royer J.C- Invoicing System: Using TAG, IRIN, Nantes, Fr

14h. 30 Sibertin-Blanc C. - Modelling the Invoicing Case Study using Petri Nets and Objects, IRIT, Toulouse, Fr

15h. 00 Attoui A. - An Approach for Real-Time Database Applications Engineering, U. Clermont, Fr

15h. 30 Discussion

15h. 45 Break

16 h. General discussion

Session 4.2

14h. 00 Diab H., Frappier M - The specification of the Invoicing Case Study in B, U.of Sherbrooke, Ca

14h. 30 Galloway A. - The Invoicing System: Using Ward/Mellor SA/RT and Value-passing SCCS in Requirements Elicitation and Analysis, U. of York, UK

16h. 00 General discussion

17 h. 00 End of the workshop

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